

84116

Z/017/60/049/011/011/013  
E073/E535

Influence of the Ambient Atmosphere on the Surface Conductivity of Silicon

it is stated that the type of conductivity can be determined in certain cases by means of the oxygen atmosphere. The conductivity increases monotonously with increasing oxygen content in the atmosphere in the case of type p junctions and decreases monotonously with increasing oxygen in the atmosphere in the case of type n junctions. Increase in the humidity brings about a monotonous increase in the surface conductivity for type n junctions, whilst for type p junctions it brings about a drop at first until a certain minimum is reached and from then onwards the surface conductivity increases. p-type junctions are more stable with respect to humidity than n-type junctions. n-p-n transistors from p-silicon with a specific resistance of  $10 \Omega \text{ cm}$  are practically stable with respect to humidity. There are 6 figures and 4 references: 2 Czech, 1 Soviet and 1 English.

ASSOCIATION: Státní výzkumný ústav silnoproudé elektrotechniky  
(Electrical Engineering State Research Institute)

SUBMITTED: July 20, 1960  
Card 3/3

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CIA-RDP86-00513R000826610017-0"

HUSA, Vaclav, inz. dr., kandidat technickych ved; KRIZ, Josef;  
LADNAR, Josef; LUKA, Frantisek

Contribution to the technology of the silicon Mesa power  
transistor. El tech obzor 52 no.10:538-540 O '63.

1. Statni vyzkumny ustav silnoprroude elektrotechniky.

ACC NR: AP6009346

(A)

SOURCE CODE: CZ/0078/65/000/011/0013/0013

AUTHOR: Husa, Vaclav (Engineering, Doctor of Sciences, Pecky); Kriz, Josef;  
Ladnar, Josef (Prague); Luxa, Frantisek (Horni Pocernice)

52  
B

ORG: none

TITLE: Manufacture of p-type diffusion silicon element. Pat. No. PV 1792-63

SOURCE: Vynalezky, no. 11, 1965, 13

27

TOPIC TAGS: silicon element, collector emitter, gallium compound, hole conduction

ABSTRACT: An Author Certificate has been issued for a method of manufacture of a p-type diffusion silicon element by a two-phase diffusion process. The element base consists of two different conductivity layers where the layer of lower conductivity is adjacent to the region of the collector, while the layer of higher conductivity is close to the region of the emitter. The p-type conductivity region is created by a two-phase diffusion process, with constant temperature of the preheated silicon plate during each phase. The first diffusion phase takes place 1200-1350C for a period of 15 min to 5 hr. Gallium oxide heated to 750 -- 200C is used as the doping compound in an amount capable of evaporating in one quarter of the given time. After the completion of the first phase, the plate temperature is lowered to 900 -- 1250C at which temperature the second phase diffusion takes place in a period of 15 min to 2 hr, again with gallium oxide as the doping compound heated to 800 -- 1200C.

Card 1/2

L 23676-66

ACC NR: AP6009346

Hydrogen is used as the gas carrier in both phases.

(KP)

SUB CODE: 20/ SUBM DATE: 06Apr65/

Card 2/2 *fl*

ACC NR: AP6035301 (A) SOURCE CODE: CZ/0078/66/000/009/0019/0020

AUTHOR: Novotny, Vladimir (Engineer; Tabor); Husa, Vaclav (Doctor; Engineer; Doctor of sciences; Pecky); Kriz, Josef (Prague); Bydzovsky, Jan (Engineer; Zasmukh); Ladnar, Josef (Prague); Luxa, Frantisek (Horni Pocernice)

ORG: none

TITLE: Ignition equipment for jet and turbojet engines. CZ Pat. No. PV 1920-S5

SOURCE: Vynalezky, no. 9, 1966, 19-20

TOPIC TAGS: power plant component, fuel igniter, engine ignition system, jet engine, jet engine component, turboprop engine, turboprop engine component, spark plug, low voltage spark plug

ABSTRACT: Ignition equipment, especially for use with aircraft jet and turboprop engines, is introduced. It has a low-voltage spark plug and is fed by d-c supply. The secondary winding of the induction coil is connected through the rectifier to the capacitor. The sparking circuit is connected in parallel to the capacitor and connected in series with the low-voltage spark plug. One end of the primary winding of the induction coil is connected to the first pole of the d-c supply. The other end

Card 1/2

ACC NR: AP6035301

is connected to the outlet of the common collector for the composite two-step transistor and the outlet of the emitter of the output transistor which is connected to the other pole of the d-c supply and another resistor which is connected through the other pole of the d-c supply. [KS]

SUB CODE: 21/SUBM DATE: 24Mar65/

Card 2/2



ACC NO: 12459347

(A)

SECRET CODE: 01/01/1963 01/01/1963

INVENTOR: Luxa, Václav (Doctor of science, Doctor, Engineer; Prague); Janáček, Jaroslav (Engineer; Prague); Černý, Ladislav (Engineer; Sadežka); Lachner, Josef (Prague); Luxa, František (Korní Počernice)

CAC: none

TITLE: A two phase semiconductor element CZ Pat. No. PV 3496-63, 1.00 21g

SOURCE: Vysokory, no. 11, 1963, 13

TOPIC TAGS: semiconductor theory, semiconductor research, phase composition, semiconductor band structure

ABSTRACT: A two-phase semiconductor element built up on semiconductor base plate, with a collector with first and second base formed as a layer into the semiconductor base plate along its entire surface on one side, with a first and second emitter formed as a second layer into the first layer. The contact of the second base is at the same time the contact of the first emitter, with feed connectors to the collector, the first base, and, if applicable, to the second base and second emitter. The first emitter is shaped in the form of a strip and the second emitter in the form of a comb. The relative position of the two emitters is such that the strip forming the first emitter is equidistant from all the ends of the comb forming the second emitter. On the first layer there is formed a contact of the first base in the shape of a strip and also a contact of the second base in the form of a comb. On the comb forming the

Card 1/2

ACC NR: AP6009347

second emitter there is formed a contact in the shape of a comb and the parts of the comb engage mutually. The relative position of the contacts is such that the strip forming the contact of the first base is equidistant from the yoke of the comb forming the contact of the second base. The relative position of the strip forming the first emitter and the contact of the second base is such that the yoke of the comb forming the contact of the second base also forms the contact of the first emitter along the part of the strip forming the first emitter.

SUB CODE: 2.0 / SUBM DATE: 07Oct63

Card 2/2

KNIZ, Josef

On the reduction of management and office personnel in  
heavy engineering enterprises. Podn org 18 no.12:537-539  
D '64.

1. Ministry of Heavy Engineering, Prague.

KRIZ, K., dr. inz.

Extinction of the primary source of potato wart disease in Slovakia.  
Rost vyroba 10 no. 4:467-468 Ap '64.

KRIZ, Kamil, Prim. Dr. (Nachod o.1489)

Motivation of the treatment of neural diseases with vital stains.  
Lek. listy, Brno 9 no.17:396-398 1 Sept 54.

1. GUNZ Nachod, neurologické oddelení, vedoucí prim. Dr Kamil Kriz.  
(STAINS AND STAINING,  
vital stains, ther. of nervous system dis.)  
(NERVOUS SYSTEM, diseases,  
ther., vital stains)

EXCERPTA MEDICA Sec. 7 Vol. 9/11 Nov. 55

KRIZ K.

2437. KRIZ K. OÚNZ Náchod neurol. odd., Náchod. \*Přispěvek k problému endokrinních poruch po dětské obrně. Contribution to the problem of endocrine disturbances following poliomyelitis LÉK. LISTY 1954, 9/24 (564-566)

In 600 patients more than 10% showed the following disturbances: striking obesity (24 cases), considerable cachexia (7), menstrual troubles (18), transitive diabetes insipidus (10), precocious sexual development (6), dystrophía adiposogenitalis (7), transient central hypothermia (2). These disturbances may be sequelae of cerebral damage caused by poliomyelitic encephalitis. The disturbances often manifested themselves after a certain latency.

Pešek - Brno (XX, 7, 8)

KRIZ, Kamil, primar MUDr

Importance of electroretinographic examination in thrombosis of the internal carotid artery. Cesk.ofth. 11 no.4-5:307-311 1955.

1. Z neurologického oddelení nemocnice v Machově

(ARTERIES, CAROTID, diseases

thrombosis of internal, diag., electroretinography)

(ANGIOGRAPHY

electroretinography in diag. of thrombosis of internal carotid artery)

KRIZ, Kamil, MUDr

Puerperal thrombosis of intracranial sinuses and cerebral veins.  
Cesk.gyn. 20 no.2:118-121 Mar 55.

1. Z neur. odd. OUNZ Nachod, prednosta: MUDr Kamil Kriz.  
(CEREBRAL EMBOLISM AND THROMBOSIS,  
sinus thrombosis, puerperal)  
(PUERPERIUM, complications,  
thrombosis of intracranial sinuses & cerebral veins)



EXCERPTA MEDICA Sec 13 Vol. 11/10 Dermatology Oct 57

2252. KRÍŽ K. and KYRAL V. Neurol. Odd. OÚNZ, Náchod. \*Pohled na dermatomyositis a neurologického hlediska. View upon dermatomyositis from the standpoint of a neurologist VNITR.LÉK. 1956, 2/10 (893-898)

A review of the neurological pictures of dermatomyositis and differential diagnostic possibilities is given. In the majority of cases there are myogenic nervous signs, rarely it is a true dermatomyositis with involvement of peripheral or central nervous system. A case is reported of dermatomyositis following a salmonellosis, paratyphoid fever B, with widespread changes in the skin, muscles and organs. Later a severe polyradiculoneuritic syndrome of Guillain-Barré's type developed; the course resembled Landry's ascending paralysis. The EEG showed diffuse changes in cortex activity. An acute dilatation of the stomach was an unexpected complication. Therapeutically cortisone failed; a dramatic improvement occurred following ACTH.  
(VIII, 13)

EXCERPTA MEDICA Sec.8 Vol.10/9 Neurology, etc. Sept. 57

A R 12 A

4029. KRÍŽ K. Neurol. Odd. OÚNZ Náchod. \*Význam chlorpromazinu v rehabilitaci spastických obrn. The significance of chlorpromazine in the rehabilitation of spastic paralyzes ČSL NEUROL. 1956, 19/4 (242-246)

I. m. administration of 25 mg. of chlorpromazine resulted in dramatic improvement of the spastic syndrome in 4 patients (2 out of 6 cases of disseminated sclerosis, 1 following severe apoplexy, 1 decerebration syndrome). A certain improvement of varying degrees took place in 10 patients whereas 2 patients did not improve at all. With the exception of the permanently improved gait in 1 patient all the features of the spastic syndrome reappeared within 2 days after the injection.

4029

An aggravating effect was observed in post-encephalitic parkinsonism (2 cases)  
and especially in myoclonus epilepsy (1 case).  
Edgar - Amsterdam

KRIZ, Kamil, MUDr.

Progressive ischemic necrosis of the anterior pituitary after childbirth (Sheehan's syndrome) in a woman with congenital hypofibrinogenemia. Cesk. gyn. 21 no.5:348-350 Sept 56.

1. Neurol. odd. OUNZ Nachod, prednosta MUDr. Kamil Kriz.  
(FIBRINOGEN, deficiency  
hypofibrinogenemia, congen., causing Sheehan's synd. (Cz))  
(HEMORRHAGIC DIATHESIS, in pregnancy  
(Same)  
(PITUITARY GLAND, ANTERIOR, diseases  
Sheehan's synd., caused by congen. hypofibrinogenemia (Cz))  
(PREGNANCY, complications  
hypofibrinogenemia, congen., causing Sheehan's synd. (Cz))

KRIZ, Kamil, MUDr.

Activation of acute disseminated lupus erythematosus by pregnancy. Cesk. gyn. 21 no.5:418-419 Nov 56.

1. Neurologické oddelení OUNZ v Nachodě. Přednosta primář Dr. K. Kriz.

(LUPUS ERYTHEMATOSUS, DISSEMINATED, in pregn.

activation (Cz))

(PREGNANCY, compl.

disseminated lupus erythematosus (Cs))

KRIZ, Kamil, Dr.; NYKLICEK, Otakar, Dr.

Treatment of eclampsia with neuroplegics. Cesk. gyn. 21-35  
no.2:119-122 Mar 56.

1. Z porodnicko-gynekologickeho odd. OUM v Nachode. (Prednosta:  
prim. Dr. O. Nyklíček) Z neurologického odd. OUM v Nachode.  
(Prednosta: prim. Dr. K. Kriz).

(ECLAMPSIA, ther.

chlorpromazine, promethazine & reserpine.

(CHLORPROMAZINE, ther. use

eclampsia, with promethazine & reserpine

(ANTI-HISTAMINICS, ther. use

promethazine in eclampsia, with chlorpromazine  
& reserpine.

(PHENOTHIAZINE, deriv.

same

(RAUWOLFIA ALKALOIDS, ther. use

reserpine, in eclampsia, with promethazine & reserpine.

KRIZ, Kamil

Comments on the symptomatology and diagnosis of epidural  
hematoma. Rozhl. chir. 35 no.11:697-701 Oct 56.

1. Z neurologického oddeleni OUNZ Machod, primar MUDr.  
Kamil Kriz.

(CEREBRAL HEMORRHAGE, compl.

epidural hematoma, diag. & symptomatol. (Cz))

EXCERPTA MEDICA Sec. 6 Vol. 11/9 Sept. 57

~~KKIŽ K.~~

5403. Kříž K. Neurol. Odd. OÚNZ, Náchod. \*Projevy mozkomíšních chorob v oblasti zažívacího traktu. Manifestations of cerebrospinal disease in the digestive sphere VNITŘ. LÉK. 1957, 3/4 (329-332)  
The relatively frequent occurrence of centrally conditioned functional and anatomical digestive disturbances is discussed. Cases are reported of acute gastric ulcer in a patient with a bilateral internal carotid thrombosis and in a patient with a ruptured cerebral arterial aneurysm. The origin of these ulcers is explained through an adaptation mechanism.



KRIZ, Kamil

Agensis of corpus callosum with malformation of cerebral hemisphere.  
Cesk. rentg. 11 no.4:217-222 Dec 57.

1. Neurologické oddelení OÚN v Nachodě, primar Kamil Kriz.  
(BRAIN, abnorm.

agenesis of corpus callosum with abnorm. right lateral  
ventricle, x-ray diag. (Cz))

(CEREBRAL VENTRICLES, abnorm.

right lateral ventricle with agenesis of corpus callosum,  
x-ray diag. (Cz))

EXCERPTA MEDICA Sec 8 Vol 12/6 Neurology June 59

2731. BILATERAL CAROTID OCCLUSION - Beitrag zur Problematik des beiderseitigen Karotisverschlusses - Kříž K. Neurol. Abt. des OÚNZ Náchod, Tschechoslowakei - ZBL. NEUROCHIR. 1957, 17/2 (92-99) Illus. 1

A total of 22 cases of bilateral occlusions of the internal carotid artery, confirmed by arteriography, surgical intervention or at necropsy are reported. Three personal observations are described and very thoroughly commented upon. The diagnostic value of auxiliary methods is pointed out, and the evaluation of arteriographic findings is discussed in particular. In 2 cases, vertebral arteriography was performed, which revealed peripheral anastomoses between the posterior and the medial or anterior cerebral artery.

Kemper - Wehnen/Oldenburg (VIII, 18)

Country : CZECHOSLOVAKIA R  
Category : Diseases of Farm Animals. Diseases Caused by  
Bacteria and Fungi  
Abs. Jour. : Ref Zhur-Biol, No 23, 1958, No 105800  
Author : Kriz, K.; Derner, A.  
Institut. : -  
Title : Experience in the Treatment of Tetanus in  
Horses with Chlorpromazine  
Orig Pub. : Veterinarstvi, 1958, 8, No 5, 171-174  
Abstract : No abstract.

Card: 1/1

KRIZ, Kamil; SNITILOVA, Radovana

Aortic arch syndrome. Cas. lek. cesk. 97 no.4:97-100 24 Jan 58,

1. Neurologické oddelení OUNX Nachod, přednosta Dr. Kamil Kriz.  
Adres autora: K. K., Nachod, OUNX.

(AORTA, dis.

aortic arch synd. (Ox))

(ARTERITIS

same)

KRIZ, K.

On the problem of the appearance of nystagmus in intraspinal expansive lesions. Cesk.otolar. 8 no.6: D '59.

1. Neurologické oddelení OUNZ v Nachodě, přednosta MUDr. Kamil Kriz.  
(SPINAL CORD dis.)  
(NYSTAGMUS etiol.)

EXCERPTA MEDICA Sec 9 Vol 13/11 Surgery Nov 59

6536. CONTRIBUTION TO THE PROBLEM OF COMPRESSIVE NEUROPATHY OF THE MEDIAN NERVE - Příspěvek k patogenezi akroparestézi horních končetin. (Ot. zv. subjektivním syndromu kompresivní neuropatie nervi mediani) - Kříž K. Neurol. Odd. OÚNZ, Náchod - ACTA CHIR. ORTHOP. TRAUM. CEC. 1959, 26/1 (51-55)

A group was selected of 21 women suffering from subjective acroparesthetic syndrome which, according to provocative tests, is classified as a compressive neuropathy of the n. mediani in the region of the flexor tunnel. In the author's view it is a so-called subjective syndrome of the flexor (carpal) tunnel. The clinical picture, differential diagnosis and therapy of this condition are discussed. The ambulatory administration of 'Iargactil' proved most satisfactory; the author presumes, however, that severing of the lig. carpi transversum after preliminary trials with the administration of hydrocortisone into the carpal tunnel will prove the treatment of choice.

(IX, 19)

KRIZ, Kamil (Nachod, OUNZ)

Cough and loss of consciousness. Cas. lek. cesk. 98 no.14:426-430  
3 Apr 59.

1. Neurologická oddelení OUNZ v Nachodě, přednosta prim. MUDr. K.  
Kriz.

(SYNCOPE

tussive syncope (Cz))

(COUGH

same)

PERMAN, Y. [Pehan, J.]; KRSHIZH, K. [Kříž, K.] [Czechoslovakia]

Diagnosis, etiology, pathogenesis and therapy of carpal tunnel  
syndrome. Zhur.nevr.i psikh no.8:982-985 '60. (MIRA 13:9)  
(MEDIAN NERVE--DISEASES)



KRIZ, K.

Treatment of acroparesthesia of the upper extremities by injections of hydrocortisone into the carpal canal. Cas.lek.cesk 100 no.29/30: 947-954 14 J1 '61.

1. Neurologické oddělení OUNZ Nachod, prednosta prim. MUDr. Kamil Kriz.

(PARESTHESIA ther) (ARM dis) (HYDROCORTISONE ther)

KRIZ, K.

Epilepsy caused by reading. Cas.lek.cesk 100 no.42:1323-1329 20 0 '61.

1. Neurologické oddělení OUNZ v Náchodě, přednosta prim. dr. K. Kriz.

(EPILEPSY etiol) (READING)

KRIZ, Kamil

Phlebographic picture of a pericranial sinus. Cesk. rentgenol. 16  
no.4:291-294 Ag '62.

1. Neurologické oddelení OUNZ v Nachodě, přednosta dr. K. Kriz.

(CEREBRAL ANGIOGRAPHY) (SCALP neoplasms)

(HEMANGIOMA radiography) (CRANIAL SINUSES radiography)

CZECHOSLOVAKIA

K. KRIZ, Head, Neurology Division, Okres National Health Institute  
(OUNZ [Okresni Ustav Narodniho Zdravi] Neurologické oddelení), Nachod.

"Multiple Sclerosis Beginning with Hypertrichosis."

Prague, Československá Neurologie, Vol 25(58), No 6, Nov 1962; pp 421-424.

Abstract [English summary modified]: In 2 women aged 24 and 32, generalized hypertrichosis preceded by 2 and 6 months respectively, the appearance of disseminated sclerosis. Process ascribed to androgen-estrogen imbalance due to demyelinating process having started in hypothalamic region. Two case reports; 6 Western and 3 Czech references.

1/1

CZECHOSLOVAKIA

K. KRIZ, Head (prednosta) Neurologic Department (Neurologické oddelení)  
OUNZ [Okresni ustav narodniho zdravi = Okres Institute of Public Health]], Nachod.

"Paroxysmal Headache from Strain."

Prague, Casopis Lekarů Českých, Vol 102, No 6, 8 Feb 63; pp 137-142.

Abstract [English summary modified]: Report on 14 patients; in all, severe headache was brought about by cough, muscular strain and any other activity increasing the thoracic pressure. Comprehensive discussion of possible cardiovascular mechanisms, role of irritability of intracranial pain sensors. ACTH infusion helps. Four Czech and 11 Western references.

1/1

LURRIGL, Teodor, dr.; KRIZ, Lujo, prim. dr.

Spondylodiscitis in the course of ankylosing spondylitis.  
Reumatizam 12 no.5:173-180 '65.

1. Zavod za reumatske bolesti "Dr. Dora Filipovic", Zagreb.

KRIZ, Milan

New filtration methods. Listy cukrovar 80 no.11,301-304 N '64.

1. Zavody Vitezneho unora National Enterprise, Hradec Kralove.

KRIZ, Milan

Work procedures with power saws in forestry. Pracovní lek.12  
no.10:523-526 D '60.

1. Vyskumny ustav lesního hospodarství a myslivosti.  
(OCCUPATIONS AND PROFESSIONS)

ZELENY, A.; KOZAK, J.; MAINEROVA, J.; KRIZ, M.; NOVOTNY, V.; SUCHY, R.;  
STOLARIK, R.

Complex research on forestry work with power saws. Conclusions for  
practical considerations. Acta univ. carol. [Med] Suppl. 15:211-217  
'61.

1. Fysiologicky ustav lek. fak. University Karlovy se sidlem v Plzni,  
Odd. chorob z povolani KUNZ v Plzni, Vyzkumny ustav lesniho hospodarstvi  
vo Zbraslavi, Ustav bezpecnosti prace ROH v Praze a Krajska sprava le su  
v Plzni.

(INDUSTRIAL MEDICINE)



ZELENY, A.; KOZAK, J.; KRIZ, Milan

Calorimetry during the work with power saws. Pracovní lek. 14, no.5:  
218-221 Je '62.

1. Fyziologický ústav lékařské fakulty Karlovy university v Pízni,  
prednosta doc. dr. A. Zelény, Vyzkumny ústav lesního hospodářství  
a myslivosti na Zbraslavi, reditel inz. J. Sobotka.  
(METABOLISM) (EXERTION)

KRIZ, M.

CZECHOSLOVAKIA/Fitting Out of Laboratories.- Instruments.  
Their Theory, Construction, and Use.

H-

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8682

Author : Kriz, M.

Inst :

Title : Experiments with a New Type Viscometer Designed for the  
Measurement of High Viscosities.

Orig Pub : Sklar a keramik, 1955, 5, No 11, 259-261.

Abstract : A viscometer, test method, and formula for the determination of the viscosity of glass at 500-650° are described. The method is based on the measurement of the elongation of a wire prepared from the glass tube tested. The wire, with a 2.5-500 gms weight attached to one end, is suspended in the furnace. The elongation of the wire is measured with a microscope from the displacement of the heat resistant alloy weight suspended from the wire. The temperature of the wire is measured by a thermocouple which

Card 1/2

CZECHOSLOVAKIA/Fitting Out Of Laboratories - Instruments.  
Their Theory - Construction, and Use.

H-

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8682

which is in contact with the wire. The measurements  
are made over a range of  
 $10^7$ - $10^{10}$  poises.

Card 2/2

KRIZ, M.

Criticism of present analytic methods in the glass industry. p. 63.  
SEKAR A KERAMIK, Prague, Vol. 6, no. 3, Mar. 1956.

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 5, No. 6 June 1956, Uncl.

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KRIZ, M.

KRIZ, M. Analysis of container glass. p. 198  
-fi- New forms of ornamental objects. p. 199

Vol. 6, no. 8, Aug. 1956  
SKLAR A KERAMIK  
TECHNOLOGY  
Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

KRIZ, M.

"Application of photothermometry to study the shaping of glass."

p. 372 (Silikaty) Vol. 1, no. 4, 1957  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEL) LC. Vol. 7, no. 4,  
April 1958

CATEGORY :  
 ABS. JOUR. : RZKhim., No. 1959, No. 6/120  
 AUTHOR : Krivanek, J.; Krin, M.  
 INST. :  
 TITLE : Determination of Mean Specific Heat  
 Value of Some Czechoslovak Glasses Used  
 to Manufacture Containers.  
 ORIG. PUB. : Silikaty, 1959, 3, No 2, 110-119  
 ABSTRACT : Description of the design of an instrument,  
 and of the method, for measuring the mean specific heat  
 values  $C_m$  of molten glass at high temperature (up to 1250°).  
 The thus determined  $C_m$  values, depending on temperature,  
 are given for three varieties of glass used in Czechoslovakia  
 to manufacture containers. These results are compared with the  
 values calculated according to Sharp and Ginther. Differences  
 between the actual and the calculated values of  $C_m$  are discussed,  
 and also the irregular nature of trend of  $C_m$  as a function of temperature.  
 From authors' summary.

CARD:

194



KRIZ, M.

Shaping the glass mass. p. 291.

SYLAR A KERAMIK. (Ministerstvo lehkeho prumsylu) Praha, Czechoslovakia,  
Vol. 9, no. 10, Oct, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1,  
Jan. 1960.

Uncl.

KRIZ, Mojmir; KADERAVEK, Jiri

New information on packing glass coloring. Silikaty 7 no.3:  
215-230 '63.

1. Vyzkumne pracoviste narodniho podniku Obalove a lisovane  
sklo, Dubi u Teplic.

POSPISIL, Vsevolod; KRIZ, Mojmir;

Protection of beer from the harmful effect of sunlight by  
bottle color. Kvasny prum 9 no.10:229-232 0 '63.

1. Pokusne a vyvohove strekisko, Vyzkumny ustav pivovarsky  
a sladarsky, Praha - Branik (for Pospisil).
2. Vyzkumne pracoviste, Obalove a lisovane sklo, n.p., Dubi  
u Teplic (for Kriz).

OLIVINKA, O.; KRIZ, O.

Reactions of anamines. Pt. II. Coll. Cs. Chem. 30 no. 5:1700-1704,  
My '65.

1. Department of Organic Chemistry of the Institute of Chemical  
Technology, Prague. Submitted August 18, 1964.

KRIZ, Pavel, dr.

Use of adhesives in spot welding of aluminum alloys. Zvaranie 12  
no.7:197-198 JI '63.

1. Vyzkumny ustav svarovacich stroju a technologie svarovani,  
Praha.

KRIZ, Pavel, dr.

Outline of the development and present state of vapor shielded welding. Zvaranie 12 no.9:260-264 S'63.

1. Vyzkumny ustav svarovacich stroju a technologie svarovani, Praha.

KRIZ, Pavel, Jr.

Explosive welding. Zvaraniia 13 no. 2: 266-267. 1964.

1. Zarody elektrotepelnym zarizom, Praga.

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CIA-RDP86-00513R000826610017-0"



KRIZ, R.

Therapeutic results with placental extracts. Cesk.ofth. 7 no.2:  
105-109 1951. (CJML 20:7)

1. Of the Eye Clinic of the Medical Faculty of Charles University  
Branch in Pilsen (Head—Prof. Rudolf Knobloch, M.D.).

KRIZ, Robert, MUDr

Unusual x-ray pictures in pneumonia and bronchopneumonia in convalescents. *Pediat. listy*, Praha 9 no.5:269-271 Sept-Oct 54.

1. Detské oddelení Thomayerovy nemocnice, Praha-Krc  
(PNEUMONIA, radiography  
x-ray pictures, unusual in healing state)  
(BRONCHOPNEUMONIA, radiography  
x-ray pictures, unusual in healing state)

*ARRA*  
PIRK, F.; ZEMAN, G.; KHIZ, R.

Two rare cases of hollow aneurysms of the ascending aorta. Cesk. rentg.  
11 no.4:256-261 Dec 57.

1. Ustav pro vyzkum vyzidu lidu v Praze-Krci, reditel doc. J. Masek  
a oddeleni ustr. rentgenu Thomayerove nemocnice v Praze-Krci.

(AORTIC ANEURYSMS, case reports

hollow aneurysms of ascending aorta, rare cases (Cs))

KRIZ, Robert, MUDr.

Tomography in excretion urography in child. Cesk. pediat. 12 no.8:  
731-732 5 Aug 57.

1. Detske interni oddeleni Thomayerovy nemocnice v Praze-Krci, prednosta  
prim. Dr. Kratkova.

(URINARY TRACT, radiography

topography in excretion urography in child (Cs))

KRIZ, R.; PIRK, F.

Possible familial congenital cranioostenosis (dysostosis craniofacialis,  
Crouzon disease. Cesk. pediat 12 no.9:834-836 5 Sept 57.  
(HYPERTENSION, case reports,  
hered. craniofacial dysostosis (Cs))

KRIZ, S.

A new approach to the limb-darkening problem of the stars RW Tauri. Riul astr Cz 16 no.2:118-122 '65.

1. Astronomical Institute of the Czechoslovak Academy of Sciences, Ondrejov. Submitted March 31, 1964.

KRIZ, V.

A contribution to the phenology of certain forest trees.  
p. 95.

BRNO Vysoka škola zemědělská a lesnická. SBORNIK RADA C: SPISY  
FAKULTY LESNICKÉ.

No. 3/4 1954.

SOURCE: East European Accessions List (EEAL) Library  
of Congress. Vol. 5, No. 1, January. 1956.

Country : CZECHOSLOVAKIA  
 Category : Forestry. Forest Cultures. K  
 Abs Jour : RzhBiol., No 6, 1959, No 24742  
 Author : Kriz, V.; Chlebek, M.; Pekar, M.  
 Inst :  
 Title : Glandular Ailanthus from Seed-Growing and  
 Forest-Culture Point of View.  
 Orig Pub : Lesn. prace, 1957, 36, No. 3, 116-118  
 Abstract : Experiments on the preservation and sowing of  
 ailanthus seeds in Czechoslovakia indicated  
 that the highest germination is attained at  
 the vernal sowing of stratified (84 days)  
 seeds. The preservation of the seeds in win-  
 tertime in small bags in a cool place produces  
 no positive results. Good results were obtai-  
 ned by the autumnal sowing of the seeds imme-  
 diately after the harvest. -- M. K. Bush  
 Card : 1/1



KRIZ, V.

Temperature regime of rivers. p. 326.

VODNI HOSPODARSTVI. Praha, Czechoslovakia. No. 8, August 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11,  
November 1959.

Uncl.

KRIZ, V.

"Hydrologic evaluation of the flood in the Ostravice-River basin, June 29, 1958." p. 136.

VODOHOSPODARSKY CASOPIS. (Slovenska akademia vied). Bratislava, Czechoslovakia, Vol. 7, No. 2, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.  
Uncla.

Z/031/60/000/009/002/002  
A205/A026

AUTHOR: Křiž, V. Engineer

TITLE: Welding of Low-Carbon Steels in Protective Carbon Dioxide Atmosphere

PERIODICAL: Strojírenská výroba, 1960, No. 9, pp. 442 - 444

TEXT: This is a description of methods and tools tested in the CSR for arc welding of low-carbon steels in protective CO<sub>2</sub> atmosphere. Short arcs and high current densities are essential for this welding method. The length of the arc is controlled by the d-c source; however, the control is rather difficult, especially when sources have steep characteristics. Best results were achieved with "S 500 A" selenium rectifiers produced by the "ČKD" Plant in Modřany (Photo 1). Automatic tools for submerged-arc welding are applicable also for welding in protective CO<sub>2</sub> atmosphere ("SUM" apparatus shown in Photo 2), when they have a modified headpiece for a sufficient CO<sub>2</sub> supply to both, the welding bath and the melting electrode. The modified headpiece contains an adjuster through which electrodes with diameters of 1.2, 1.6, 2 or 2.4 mm are continuously fed to the tip, and a connection for a CO<sub>2</sub> gasline, the flow of which is directed by a

Card 1/3

Z/031/60/000/009/002/002  
A205/A026

# Welding of Low-Carbon Steels in Protective Carbon Dioxide Atmosphere

nozzle. An insulating ring and lining provide for separation of the electric elements. The "T 350" torch for welding with a tungsten electrode in argon atmosphere (Photo 3) can also easily be adjusted for semiautomatic arc welding in CO<sub>2</sub> atmosphere. Electrodes used in the USSR for welding low-carbon steel sheets have the following composition: up to 0.1% C; 0.6 - 0.85% Si; 1.4 - 1.7% Mn; less than 0.03% Al; up to 0.03% S; up to 0.035% P; up to 0.2% Cr; up to 0.25% Ni; and up to 0.25% Cu. Electrodes used for the welding of thick metal sheets (eventually of steel alloy) have the following composition: up to 0.1% C; 0.75 - 0.95% Si; 1.8 - 2.1% Mn; and with Al, S, P, Cr, Ni and Cu percentages similar to those in the above listed electrode. The "VZKG" Combine in Ostrava started the production of electrodes 1.6 mm in diameter which have the following composition: 0.12% C; 1.26% Mn; 0.91% Si; 0.021% P; 0.012% S; 0.14% Cu; 0.09% Ni; and 0.17% Cr. The CO<sub>2</sub> used must have a minimum purity of 99.7%. The N content must not exceed 0.1%. CO<sub>2</sub> used in the USSR contains approximately 0.05 - 0.1% water, while CO<sub>2</sub> used in the CSR can contain as much as 0.4% water. The welding speed depends on the current intensity, the speed of the electrode feed on its diameter. The dependence of the welding current on the electrode-feed ratio is shown in Figure 4. A current of 450 amp is achieved with a 2.4 mm electrode fed

Card 2/3

Z/031/60/000/009/002/002  
A205/A026

Welding of Low-Carbon Steels in Protective Carbon Dioxide Atmosphere

at a rate of 3 m/min or with a 1.6 mm electrode fed at a minimum rate of 8 m/min. The welding current influences chiefly the width and depth of the weld. The longer the arc, the shallower is the heat penetration. The relation between the welding output (deposit in kg/h) and on the feed ratio of 1.6 and 2.4 mm electrodes is shown in Figure 5. At constant feed, losses by spraying and evaporation are decreasing with increasing welding current, but increasing with increasing arc tension. Successful test welds in protective CO<sub>2</sub> atmosphere with good penetration of 14 mm thick material are shown in ground sections of a butt joint (Photo 6) and a fillet weld (Photo 7). In conclusion, the author lists several advantages and disadvantages of welding in protective CO<sub>2</sub> atmosphere. There are 2 figures and 5 photos.

ASSOCIATION: Výzkumný ústav svařovacích strojů a technologie svárování (Research Institute for Welding Machines and Welding Technology) in Prague

Card 3/3

KRIZ, V.

Hydrological problems of the World Meteorological Organisation.  
Meteorolog spravy 15 no.5:143-144 0 '62.

1. Hydrometeorologický ustav, Ostrava.

HORSAV, Ladislav, 1921; KRIZ, Vladislav, promovany profesor

Ten years of the Hydrologic Service at the Institute of  
Hydrometeorology. Vodni hosp 14, no.12:443-444 '64.

1. Institute of Hydrometeorology, Prague.

KRIZ, V.; VASA, J.

International Hydrological Decade. Meteor spravy 17 no.5:  
156-158 0 '64.

1. Hydrometeorological Institute, Prague; Hydraulic Research  
Institute, Prague.



KRIZ, Vladimir, inz. promovany geograf; VASA, Jiri, inz. CSc.

International cooperation in hydrology. Vod hosp 15 no.1:2-4 '65.

1. Hydrometeorological Institute, Ostrava (for Kriz). 2. Research  
Institute of Water Resources Management, Prague (for Vasa).

PRASEK, K.; KLIMA, J.; KRIZ, V.

Possibilities of increasing the gas production in pressure  
gas plants. Paliva 45 no.2:33-38 F '65.

1. Research Institute of Fuels, Bachovice.

RAKUSAN, Karel; KRIZ, Zdenek

The development of subcutaneous fat in preschool children. Cesk.  
pediat. 15 no.3:215-218 Mr '60.

1. Katedra farmakologie a patologicko fysiologie fakulty detskeho  
lekarstvi v Praze. Oddeleni patologicke fysiologie, vedouci odde-  
leni doc. dr. Zelenka.

(ADIPOSE TISSUE in infancy & childhood)

KRIZ, Zdenek, dr.

Report on the February meeting of the Automation Commission affiliated  
with the Central Council of the Czechoslovak Scientific Technical  
Society. Automatizace 6 no.4:100 Ap '63.

BAIULESCU, Gh.; KRIZA, A.

Gravimetric determination of Zr(IV) with Orange II. Studii cerc  
chim 8 no.3:541-543 '60. (EKA1 10:9)

1. Laboratorul de chimie anorganica si analitica al Facultatii de  
chimie, Universitatea "C. I. Parhon", Bucuresti.

(Zirconium) (Hydroxynaphthylazobenzenesulfonic acid  
sodium salt)

SPACU, Petru; BREZEANU, M.; KRIZA, A.

New syntheses in the chemistry of complex compounds. II. Complex compounds of cobalt(III) with dioxime. Studii cerc chim 9 no.1:149-158 '61.  
(EEAI 10:9)

1. Laboratorul de chimie anorganica al Universitatii "C. I. Parhon", Bucuresti. 2. Comitetul de redactie, STUDII SI CERCETARI DE CHIMIE (for Spacu).

(Complex compounds) (Cobalt) (Oximes)

HAIDEGGER, Erno; KRIZA, Daniel

Dealkylation of alkyl aromatic compounds. Magy kem lap 18  
no.11:517-523 N '63.

1. Chemokomplex Kulkereskedelmi Vallalat (for Haidegger).
2. Nagynyomasu Kiserleti Intezet (for Kriza).

KRIZA, Ferenc; CSEHNATI, Istvan; RAK, Kalman

Thrombopoietic activity of the serum in experimental thrombocytosis of rats. Kiserl orvostud. 15 no.2:130-133 Ap '63.

1. Szegedi Orvostudományi Egyetem I. sz. Belklinikája.  
(BLOOD PLATELETS) (ULTRAVIOLET RAYS) (THROMBOPENIA)  
(THROMBOPLASTIN) (HEMORRHAGE)



1

KAIZA, K.

CA

Separation of emulsions. Tibor Jancsó, Kálmán Kriza, and Imre Seestmihók. Hung. 139,132, Jan. 3, 1940. Emulsions are heated under pressure to a temp. at which the vapor tension of the emulsion is 5-20 atm. The treatment is continuous in app. of several stages. I. F.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

12345 6789

101112 131415 161718 192021 222324 252627 282930 313233 343536 373839 404142 434445 464748 495051 525354 555657 585960 616263 646566 676869 707172 737475 767778 798081 828384 858687 888990 919293 949596 979899

CA

KRIZA, K.

7

Oxygen determination with the Orsat apparatus by means  
of a  $\text{CrCl}_3$  solution. Kalman Kriza and Gyula Simon  
Magyar Kem. Lapok 6, 611 (1951) In place of the usual pyro-  
gallic soln.  $\text{CrCl}_3$  soln. is suitable for detg.  $\text{O}_2$ . The soln. of  
 $\text{CrCl}_3$  can be regenerated by electrolytic treatment.  
Istvan Fulya

KRIZAJ, Stefan

Introduction into the Yugoslav standards of the metric thread with the ISO profile and of the tolerance for threads. Stroj vest # no.1/2:15-21 Ap '62.

1. Tovarna avtomobilov in motorjev, Maribor.

EMANOVIC, Dubravko; KRIZAJ, Zdravko

Reamination of a starving and deeply cooled rat. Biol glas 14  
no.3/4:155-165 '61.

1. Odjel za fiziologiju Instituta za morfologiju i fiziologiju  
Veterinarskog fakulteta u Zagrebu.

KRIZAN, Bohumil, inz.

Unipolar transistors from cadmium sulfide. Automatizace  
7 no. 4:111, Ap '64.

KRIZAN, Bohum l, inz.

Analog computers for chemistry. Slaboproudý obzor 25 no.6:374-  
375 Je '64.

Kozlov, G., Inc.

Third conference on nonlinear oscillations. Leningrad 25 no.  
12:739 p 164.

~~SECRET~~

ACC NR: AP6010962

SOURCE CODE: CZ/0080/65/000/004/0100/0101

AUTHOR: Krizan, B. (Engineer); Kotva, M. (Engineer); Sedmidubsky, Z. (Engineer);  
Stanek, M. (Engineer)

ORG: none

TITLE: Characteristics of the AP-S and MEDA 20TS differential analyzers

SOURCE: Automatizace, no. 4, 1965, 100-101

TOPIC TAGS: digital differential analyzer, electronic component, computer programming

ABSTRACT: The components of these two differential analyzers are listed in a comparative type of table. The parameters of the components are given, and the applications, method of programming, general parameters and present status of installation in Czechoslovakia are given for the analyzers. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 1/1 BK



ANALYSIS ; +

11-1-1941

Also included construction of a one-story industrial building. (See  
cont.) p. 157 (Inženýrské Stavby, Praha, Vol. 2, no. 6, June 1954)

**.East**

50: Monthly List of <sup>EAST</sup> European Association (EAE), 10, Vol. 4, No. 6,  
June 1986, Incl.

KRIZAN, J.

Prefabricated roofing for a one-storey industrial workshop. p. 262.  
INZENYRSKE STAVBY. Praha. Vol. 2, no. 7, July 1954.

SOURCE: East European Accessions List (FEAL), LC, Vol. 5, no. 3, March 1956.

KRIZAN, J.

Report on the 1st Congress of Researchers in the Field of Reinforced  
Concrete, p. 328, POZEMNI STAVBY, (Ministerstvo stavebnictvi) Praha,  
Vol. 3, No. 8, Aug. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 4, No. 12, December 1958

KRIZAN, L., inz.

Five ideas from our welding shops. Zvaranie 11 no.2:50-51 F '62.

CA- KISILEV, Vladimir

25

Surface dyeing of nylon. Vladimir Kisilev. *Chem. Zvesti* 4, 458 (1950). Nylon with OH groups in the side chain can be dyed on the surface. The quality of the fiber is affected by choice of the dye and the method used in dyeing. Nylon made by polycondensation of 11-ethanolamino-hemibacanic acid is fusible, can be dyed and made into the fibers. Jan Muka

1951

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KRIZAN, V.

Effect of vibration during transportation on Bausch-Lomb dust count.  
Pracovní lek. 4 no.3:234-237 June 1952. (CJML 23:4)

1. Of the Institute of Industrial Medicine, Ostrava.

(3)

The production of "V-K" chalk from sugar-beet defecation lime cake. J. Valátko and V. Krilan (Slovenská akad. vied. Bratislava, Czech). *Chem. Zvesti* 7, 299-316 (1933).  
Sugar-beet defecation lime cake contains very fine crystals of  $\text{CaCO}_3$  and aggregates of  $\text{CaCO}_3$  with org. matter which cannot be removed mechanically. Org. matter can be eliminated by the action of alkali hydroxides, aerobic microorganisms such as *Fusarium bulbigenum*, heating to  $550^\circ$ , or bleaching with  $\text{Cl}_2$ . A chalklike substance contg. 99.0%  $\text{CaCO}_3$  is obtained. It is similar to chalk derived from limestone and has a very wide com. use. *J. M.*



The use of "V-K" chalk as a preservative in sugar-beet storage and for preparation of powdered insecticides. J.

Vašátko and V. Kellán (Slovenská akad. věd, Bratislava, Czech.). *Chem. Zvesti* 7, 537-43(1953); cf. C.A. 48, 7323c.  
—"V-K" chalk (I) prepd. from sugar-beet defecation lime cake decreased sugar losses from 0.045 to 0.012% per day in sugar-beet storage by preventing microbial decompn. It is also effective as an insecticide and as a carrier (80%) for PDT and HCH.  
Jan Micka

①

KRIZAN, V.

"Hexachloran V-K as an active agent against caterpillars of the sugar-beet moth."  
Chesmicke Zvesti, Bratislava, Vol. 8, No. 2/3, Feb./Mar. 1954, p. 91.

SO: Eastern European Accessions list, Vol. 3, No. 11, Nov. 1954, L.C.

Reifen, V.

Journal of Applied Chemistry  
June 1954  
Industrial Inorganic Chemistry

Technology of washed chalk VK from sugar factory salination  
muds. J. Vasatko and V. Kucan (*Lehy Cukr.*, 1954, 70, 9-15).  
A fine form of chalk can be obtained from the muds by purification  
and (preferably) elutriation, as the chalk, org. matter, sand, etc.,  
settle at different rates. Org. matter may also be removed by  
treatment with NaOH or  $\text{Na}_2\text{CO}_3$ , by heating and elutriation, or by  
means of suitable aerobic micro-organisms. Satisfactory pilot  
plant tests have been made. SUG. IND. ABSTR. (P.S.A.)

KRIZAN, V., and others.

SCIENCE

Periodicals: BIOLOGIA Vol. 10, no. 6, 1955

KRIZAN, V. Xylocid, the floating insectide. p. 777

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,  
May 1959, Unclass.